

No. 1.

From. D. 50 96

to D. 51 52 (even number)

Nest D. no. 5096

Nest H. no. 4897

— " — 4899

— " — 4905

Dredge } No. 5096. Date, 2 Jan., 1908
 Hydrog. }
 Sdg. Mch. Tanner No. Reel T. N. Shot } 30 lbs.
 Lead }
 Turns Cor'n Depth 28 fms.
 Sdg. Cup Snapper Amt. Bot'm Sample cup full
 Character of Bottom gy. M S SL
 No. Thermom. { Make No. X Cor'n { Instr. X
 Stem. X
 Bottom Reading X Cor'd Temp. X
 Temp. Surf. { 79° Time 10.48 } Air { 79 1/2°
 { 79° Time 11:12 } { 79 3/4°
 Density: Surf. fms.
 Wind: Direction E N E Force 3
 Baromet. 29.90 Amt. of Clouds 8 State of Sea 6.
 Weather bc
 Direction and Force of Current { Surface
 Bottom
 Tide

General Locality China Sea, off Luzon.
 Monga Id N 54° W. Corregido Lt N.
 Position 14° 20' 23" N. - 120° 34' 15" E. A
 Chart used: No. 4240 C.S. Ed'n Feb. 07.
 Drift: Direction SW Distance
 Depth of Haul bottom
 Apparatus and Rig used 9' Tanner, 1 tail-rot, mud tray

Time towing 0 h. 21 m.
 Remarks: Character of bottom is expressed in the abbreviations used by the Hydrographic Office; force of wind, amt. of clouds, state of the sea, and weather by log book symbols; bearings are true unless otherwise marked throughout this Expedition.

Deck Officer B. Cassidy. Recorder V. Araki -

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
A. M. Down.			Up. A. M.				A. M. Down.			Up. A. M.		
10.	41	30	10	42	50	0	10	46	50	11	17	20
10.	42	00	10	42	10	28	40	10	48	40		
						200	45	11	01	10	11	10
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge } No. 5097. Date, 2 Jan., 1908

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth 64 30 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____ by Ckt. gn M. ?

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 79° Time 11:15 } Air { 79 3/4
 { 79° Time 11:40 } { 82 1/2

Density: Surf. _____ fms. _____

Wind: Direction N E by E. Force 3

Baromet. 29.89 Amt. of Clouds 8 State of Sea S

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality China Sea, off Luzon.

Manga Id N 42° W, Corregidor Lt North 6°

Position 14° 19' 15" N - 120° 33' 52" E.

Chart used: No. 4240, C. S. Ed'n Feb. 07.

Drift: Direction NW by W Distance _____

Depth of Haul bottom

Apparatus and Rig used to previously

Time towing 0 h. 19 m.

Remarks:

Deck Officer B. Cassidy Recorder J. Smith

SOUNDING WIRE.				FMS.	DREDGING CABLE.					
M. Down.	Up.	M.			A. M. Down.		Up.	A. M.		
<i>No sounding.</i>				0	11	14	50	11	42	30
				100 75	11	18	15	11	38	05
				200 94	11	22	00			
				300 104	11	27	10	11	37	50
				400						
				500						
				600						
				700						
				800						
				900						
				1000						
				1100						
				1200						
				1300						
				1400						
				1500						
				1600						
				1700						
				1800						
				1900						
				2000						
				2100						
				2200						
				2300						
				2400						
				2500						
				2600						
				2700						
				2800						
				2900						
				3000						
				3100						
				3200						
				3300						
				3400						
				3500						
				3600						
				3700						
				3800						
				3900						
				4000						
				4100						
				4200						
				4300						
				4400						
				4500						
				4600						
				4700						
				4800						
				4900						

Dredge } No. 5095 Date, Jan 2, 1906

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 80° Time 12.44 P } Air { 82°
79° Time 1.00 P } 82°

Density: Surf. fms.

Wind: Direction E.N.E. Force 3

Baromet. 29.84 Amt. of Clouds 8 State of Sea S. by E

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Chinita Sch. off L. T. Zonula

Stonga Id N 24° W - Corregidor Lt N 21° E

Position 14° 18' 40" N - 120° 32' 40" E

Chart used: No. 4240 C.S. Ed'n Feb/07

Drift: Direction N x N. Distance

Depth of Haul bottom reached with 60 fath

Apparatus and Rig used 9' Tanner, 1 tail weight.

mud bag, 2

Time towing h. 20 m.

Remarks: Net came up, with wrong side up.

Deck Officer B. L. Mottus Recorder C. E. Long

SOUNDING WIRE.					FMS.	DREDGING CABLE.				
L. M. Down.		Up.		M.		P. M. Down.		Up.	P. M.	
					0	12	39	30	1	08 50
					100		43	15		04 30
					200	12	43	50	1	03 50
					300					
					400					
					500					
					600					
					700					
					800					
					900					
					1000					
					1100					
					1200					
					1300					
					1400					
					1500					
					1600					
					1700					
					1800					
					1900					
					2000					
					2100					
					2200					
					2300					
					2400					
					2500					
					2600					
					2700					
					2800					
					2900					
					3000					
					3100					
					3200					
					3300					
					3400					
					3500					
					3600					
					3700					
					3800					
					3900					
					4000					
					4100					
					4200					
					4300					
					4400					
					4500					
					4600					
					4700					
					4800					
					4900					

Dredge } No. 5-099 Date, Jan 2, 1908
~~Hydrog.~~

Sdg. Mch. _____ Reel _____ Shot }
Lead } lbs.

Turns 20 Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 79° Time 1.20 P } Air { 81°
80° Time 1.30 P } 81°

Density: Surf. _____ fms. _____

Wind: Direction E.N.E. Force 2-3

Baromet. 29.82 Amt. of Clouds 8 State of Sea S.

Weather bc.

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality China Sea, off Luzon Bay

Manga Id bar N 7° W, Corregidor Light

Position 14° 18' 55" N - 120° 31' 20" E N 36° E

Chart used: No. 4240 C.S. Ed'n Feb. / 07

Drift: Direction Drift N. Distance _____

Depth of Haul Net on bottom at 60 fath. wire

Apparatus and Rig used as before

Time towing _____ h. 20 m.

Remarks:

Deck Officer E. S. Mutton Recorder C. E. Long

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

P.M. Down. Up. P.M.

0

1 16 00

1 45 08

100

1 20 10

1 41 18

~~110~~~~200~~

1 20 40

1 40 40

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 57142 Date, , 19

Sdg. Mch. Reel Shot lbs.

Turns 35 Cor'n None Depth 36 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom 94.5

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 80° Time 2:29 } Air { 85°
80° Time 2:45 }

Density: Surf. fms.

Wind: Direction E. N. E. Force 3

Baromet. 29.79 Amt. of Clouds 8 State of Sea L

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality China Sea, off Luzon

Tonga Id. N 17 W, Fraile Id. N 77° E

Position 14° 17' 15" N - 120° 32' 40" E

Chart used: No. 4240 C.S. Ed'n

Drift: Direction N.E. Distance

Depth of Haul 40

Apparatus and Rig used as before

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
M. Down.		Up.	M.				P. M. Down.	Up.	P. M.			
2	15	40	2	17	10	0	2	18	40	2	45	5-65
2	15	40	2	16	35	100	2	18	40	2	45	5-65
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge } No. 5101 Date, _____, 1903

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns 28 Cor'n _____ Depth 43 fms. (24)

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____
No. _____

Cor'n { Instr. _____
Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 78 Time 1:12 Air { 82
78 Time 1:40 82

Density: Surf. 1.02391 fms. _____

Wind: Direction East Force 2-3

Baromet. 27.26 Amt. of Clouds 3 State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality _____

Position 14° 11' 00" N 12° 10' 00" W

Chart used: No. 424068 Ed'n Feb 1907

Drift: Direction _____ Distance _____

Depth of Haul 37

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: _____

SOUNDING WIRE.				FMS.	DREDGING CABLE.		
M. Down.	Up.	---	M.		M. Down.	Up.	M.
				0	1	12	5
				100	1	15	40
				200			
				300			
				400			
				500			
				600			
				700			
				800			
				900			
				1000			
				1100			
				1200			
				1300			
				1400			
				1500			
				1600			
				1700			
				1800			
				1900			
				2000			
				2100			
				2200			
				2300			
				2400			
				2500			
				2600			
				2700			
				2800			
				2900			
				3000			
				3100			
				3200			
				3300			
				3400			
				3500			
				3600			
				3700			
				3800			
				3900			
				4000			
				4100			
				4200			
				4300			
				4400			
				4500			
				4600			
				4700			
				4800			
				4900			

Dredge } No. 5105 Date, June 1, 1906

Sdg. Mch. _____ Reel _____ Shot } lbs.

Turns _____ Cor'n _____ Depth 33 fms.

Sdg. Cup _____ Amt. Bot'm Sample (by chd)

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 81° Time 4:55 } Air { 86.2°
81° Time 4:35 } 87°

Density: Surf. 1.0247 fms. _____

Wind: Direction ESE Force 2

Baromet. 29.88 Amt. of Clouds 8 State of Sea C

Weather Bz.

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality _____

Position 44° 12' N, 10° 12' 30" E

Chart used: No. 1174, Ed'n 1002

Drift: Direction N by E Distance _____

Depth of Haul 28 fms 150

Apparatus and Rig used 10 ft. Luster

Time towing 0 h. 20 m.

Remarks: The sinker was not recovered at time haul, but entered on June 21 and it may have been the 100 pound sinker.

Deck Officer _____ Recorder _____

SOUNDING WIRE.				FMS.	DREDGING CABLE.					
M. Down.	Up.	M.			P. M. Down.	Up.	P. M.			
				0	4	12	25	4	37	40
				100	4	14	25			
				200	5	15	20			
				300	7	19	45	4	35	10
				400						
				500						
				600						
				700						
				800						
				900						
				1000						
				1100						
				1200						
				1300						
				1400						
				1500						
				1600						
				1700						
				1800						
				1900						
				2000						
				2100						
				2200						
				2300						
				2400						
				2500						
				2600						
				2700						
				2800						
				2900						
				3000						
				3100						
				3200						
				3300						
				3400						
				3500						
				3600						
				3700						
				3800						
				3900						
				4000						
				4100						
				4200						
				4300						
				4400						
				4500						
				4600						
				4700						
				4800						
				4900						

Dredge } No. 1 Date, June 7, 1901

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
No. _____ Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 77 Time 1.47 } Air { 81°
79° Time 2.09 P. } 86°

Density: Surf. _____ fms. _____

Wind: Direction E.S.E. Force 2

Baromet. _____ Amt. of Clouds 4 State of Sea _____

Weather bc.

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality Subic Bay, Luzon, Philippines
Terneros Is., Manila, June 7, 1901

Position 12°40'25"N - 120°15'25"E

Chart used: No. 112 CS Ed'n _____

Drift: Direction S.E. Distance 5/8 m.

Depth of Haul 2.2

Apparatus and Rig used 12' Trawl, mud bag,
gill net, etc.

Time towing — h. 20 m.

Remarks: Trawl hauled on bottom at 1:45-3.0 P.M.

Deck Officer _____ Recorder _____

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

P. M. Down. Up. P. M.

					0	1 44 00	2 07 40
					100	1 56 10	2 05 30
					200		
					300		
					400		
					500		
					600		
					700		
					800		
					900		
					1000		
					1100		
					1200		
					1300		
					1400		
					1500		
					1600		
					1700		
					1800		
					1900		
					2000		
					2100		
					2200		
					2300		
					2400		
					2500		
					2600		
					2700		
					2800		
					2900		
					3000		
					3100		
					3200		
					3300		
					3400		
					3500		
					3600		
					3700		
					3800		
					3900		
					4000		
					4100		
					4200		
					4300		
					4400		
					4500		
					4600		
					4700		
					4800		
					4900		

Dredge } No. 5104 Date, June 1, 1904

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 78 Time 10:16:11 } Air { 81
78 Time 10:14:2 } 82

Density: Surf. fms.

Wind: Direction NE Force 3-2

Baromet. 30.02 Amt. of Clouds 1 State of Sea

Weather Partly Cloudy

Direction and Force of Current { Surface Bottom

Tide

General Locality Subig Bay

Course 144° 50' 15" S Distance 8.72 miles

Position 14° 45' 14" N - 120° 15' 20" E

Chart used: No. 42546.8 Ed'n

Drift: Direction SSV Distance 1/2 mile

Depth of Haul 35 to 36 fms

Apparatus and Rig used 12 Tanner Trawl

floats 1

Time towing 2.0 m.

Remarks: 1

Deck Officer B. W. ... Recorder T. H. ...

SOUNDING WIRE.

M. Down. | Up. | M.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

0	12	15	50	10	44	35
89	10	19	30	10	37	30
100						
200						
300						
400						
500						
600						
700						
800						
900						
1000						
1100						
1200						
1300						
1400						
1500						
1600						
1700						
1800						
1900						
2000						
2100						
2200						
2300						
2400						
2500						
2600						
2700						
2800						
2900						
3000						
3100						
3200						
3300						
3400						
3500						
3600						
3700						
3800						
3900						
4000						
4100						
4200						
4300						
4400						
4500						
4600						
4700						
4800						
4900						

Dredge } No. 25 Date, June 19

Sdg. Mch. Reel Shot/Leads lbs.

Turns Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 71 Time 11:25 } Air { 81 Time 11:25 }

Density: Surf. fms.

Wind: Direction N.W. Force 3

Baromet. 30 Amt. of Clouds 1 State of Sea S

Weather Bc bc

Direction and Force of Current { Surface Bottom

Tide

General Locality Subic Bay

Position 14° 13' 15" N - 120° 12' 00" E

Chart used: No. 425468 Ed'n

Drift: Direction N. 60° W. Distance

Depth of Haul 25 - 50 fms.

Apparatus and Rig used As bc

Time towing h. m.

Remarks:

Deck Officer Recorder W. H. B.

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0	11	02	20	11	28	40
400	11	04	30			
800	11	07	20	11	25	00
300						
400						
500						
600						
700						
800						
900						
1000						
1100						
1200						
1300						
1400						
1500						
1600						
1700						
1800						
1900						
2000						
2100						
2200						
2300						
2400						
2500						
2600						
2700						
2800						
2900						
3000						
3100						
3200						
3300						
3400						
3500						
3600						
3700						
3800						
3900						
4000						
4100						
4200						
4300						
4400						
4500						
4600						
4700						
4800						
4900						

© 0000

Dredge } No. 5106 Date, 9 January, 1908

Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
Lead } _____

Turns _____ Cor'n _____ Depth 28-37 fms.
cht.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom, gy. cht. ST.

Thermom. { Make 1/2 No. 11 Cor'n { Instr. _____
Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 78° Time 1:54 } Air { 86°
140° Time 2:22 } 85°

Density: Surf. _____ fms. _____

Wind: Direction NE, N Force 4

Baromet. 29.42 Amt. of Clouds 7 State of Sea S

Weather bc

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality North Channel, Fish Bay

Area 10, 34-35, North Channel S.

Position 140° 34' 35" W - 120° 23' 33" N

Chart used: No. 4240 C.S. Ed'n 156 07.

Drift: Direction N 4 Distance 1.2 m.

Depth of Haul Bottom.

Apparatus and Rig used 12' Tanner Trawl - with
mud bag, tail weight, 2 ring weights
and 5 glass floats.

Time towing _____ h. 20 m.

Remarks: Trawl came up without
and tail twisting - haul net empty.

Deck Officer _____ Recorder, _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

D. M. Down. Up. M.

0	1	53	30	2	21	50
100	1	57	30	2	18	20
200						
300						
400						
500						
600						
700						
800						
900						
1000						
1100						
1200						
1300						
1400						
1500						
1600						
1700						
1800						
1900						
2000						
2100						
2200						
2300						
2400						
2500						
2600						
2700						
2800						
2900						
3000						
3100						
3200						
3300						
3400						
3500						
3600						
3700						
3800						
3900						
4000						
4100						
4200						
4300						
4400						
4500						
4600						
4700						
4800						
4900						

Dredge } No. 5107 Date, 9 Jan., 1907

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth 28 fms.
 ckt.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom by clay, silt, etc.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 78° Time 7:34 p. } Air { 81° }
 { 78° Time 7:52 p. } { 81° }

Density: Surf. 1.02379 _____ fms. _____

Wind: Direction N.E. by N Force 4

Baromet. 29.92 Amt. of Clouds 9 State of Sea S.

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide ..

General Locality North Channel, 5 miles long

Trin Id. S.W. 1/2 Sec. 12, Twp. 12 N., R. 12 E.

Position 14° 24' 30" N; 120° 32' 00" W

Chart used: No. 422 Ed'n Feb 07

Drift: Direction S. 40° E Distance 1.7 m.

Depth of Haul Bottom

Apparatus and Rig used 10' beam trawl

Time towing — h. 20 m.

Remarks:

Deck Officer J. H. [Signature]

Recorder [Signature]

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

M. Down.	Up.	M.	FMS.	M. Down.	Up.	M.
			0	2	34	00
			100	2	37	30
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. Tomlinson Reel 1 Shot 30 lbs.
Turns 1 Cor'n _____ Depth 1 fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom _____
Thermom. { Make _____ Cor'n { Instr. -4
 { No. 188022 { Stem. 00.
Bottom Reading 80.4 Cor'd Temp. 80
Temp. Surf. { _____ Time 1:40 } Air { _____
 { _____ Time 8:40 } { _____
Density: Surf. 102406 fms. _____
Wind: Direction E Force 3
Baromet. 29.88 Amt. of Clouds 1 State of Sea 2
Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position 1-13-15' N 16-17-17' W

Chart used: No. 424 Ed'n _____

Drift: Direction NE 3/4 N Distance ✓

Depth of Haul Bottom

Apparatus and Rig used 9' Albs.

weight, mud bag, glass float

Time towing 5 min h. _____ m. _____

Remarks: _____

wire in derrick & replaced

at 50 fms.

Deck Officer _____ Recorder _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

8	01	10	8	02	40
8	01	20	8	02	20

8	09	20			
8	24	00	8	35	00

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

Dredge } No. 10 Date, Jan 1, 1900
Hydrog. }

Sdg. Mch. *Fr.-Blisk.* Reel *Shut* *Lead* } 3 1 - lbs.

Turns 16 Cor'n none Depth 16 fms.

Sdg. Cup		Amt. Bot'm Sample		
----------	--	-------------------	--	--

Character of Bottom *fine*

Thermom. { Make *fine* Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 80° Time 9.01 } Air { 81° }
 { 80° Time 9.13 } { ! }

Density: Surf. 1.02406 fms. 1

Wind: Direction East Force 2-3

Baromet.	Amt. of Clouds	State of Sea
----------	----------------	--------------

Weather 22°C.

Direction and Force of Current.	{	Surface
		Bottom

Title _____

General Locality 100. 100. 100. 100.

... 6 1/2 % ...

Position $14^{\circ}-5'-32''N$ $120^{\circ}-20'-15''E$

Chart used: No. CS 4240 Ed'n _____

Drift: Direction South Distance 3

Depth of Haul *bottom*.....

Apparatus and Rig used -- 8 tang's cable, 180'

Time towing	h.	/	l.	m.
1900	1	10	00	00
1901	1	10	00	00
1902	1	10	00	00
1903	1	10	00	00
1904	1	10	00	00
1905	1	10	00	00
1906	1	10	00	00
1907	1	10	00	00
1908	1	10	00	00
1909	1	10	00	00
1910	1	10	00	00
1911	1	10	00	00
1912	1	10	00	00
1913	1	10	00	00
1914	1	10	00	00
1915	1	10	00	00
1916	1	10	00	00
1917	1	10	00	00
1918	1	10	00	00
1919	1	10	00	00
1920	1	10	00	00
1921	1	10	00	00
1922	1	10	00	00
1923	1	10	00	00
1924	1	10	00	00
1925	1	10	00	00
1926	1	10	00	00
1927	1	10	00	00
1928	1	10	00	00
1929	1	10	00	00
1930	1	10	00	00
1931	1	10	00	00
1932	1	10	00	00
1933	1	10	00	00
1934	1	10	00	00
1935	1	10	00	00
1936	1	10	00	00
1937	1	10	00	00
1938	1	10	00	00
1939	1	10	00	00
1940	1	10	00	00
1941	1	10	00	00
1942	1	10	00	00
1943	1	10	00	00
1944	1	10	00	00
1945	1	10	00	00
1946	1	10	00	00
1947	1	10	00	00
1948	1	10	00	00
1949	1	10	00	00
1950	1	10	00	00
1951	1	10	00	00
1952	1	10	00	00
1953	1	10	00	00
1954	1	10	00	00
1955	1	10	00	00
1956	1	10	00	00
1957	1	10	00	00
1958	1	10	00	00
1959	1	10	00	00
1960	1	10	00	00
1961	1	10	00	00
1962	1	10	00	00
1963	1	10	00	00
1964	1	10	00	00
1965	1	10	00	00
1966	1	10	00	00
1967	1	10	00	00
1968	1	10	00	00
1969	1	10	00	00
1970	1	10	00	00
1971	1	10	00	00
1972	1	10	00	00
1973	1	10	00	00
1974	1	10	00	00
1975	1	10	00	00
1976	1	10	00	00
1977	1	10	00	00
1978	1	10	00	00
1979	1	10	00	00
1980	1	10	00	00
1981	1	10	00	00
1982	1	10	00	00
1983	1	10	00	00
19				

Remarks: - 1036, 1037, 1038, 1039

Deck Officer Recorder 11-1023

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
8 46 20	8 47 20		0	8 57 30	9 12 05	
8 46 40	8 46 35		100			
			200			
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 6109 Date, 11 June 1906

Sdg. Mch. Reel ~~Blank~~ Lead lbs.

Turns Cor'n Depth 10 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 80° Time 20.17 } Air { 85°
80° Time 10.33 }

Density: Surf. 1.02346 fms.

Wind: Direction Force 3

Baromet. 44.7 Amt. of Clouds 1 State of Sea 0

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 14

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		A. M. Down.	Up.	A. M.
			0	14	12	14
			100	15	13	15
			200	10	26	30
			300			
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 4712 Date, Jan 13, 1901
Hydrog. }

Sdg. Mch. Reel Shot } lbs.
Lead }

Turns 12 Cor'n Depth 12 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 80.0 Time 10.30 } Air { 84.0
Time 10.35 }

Density: Surf. 1.02386 fms.

Wind: Direction East Force 3

Baromet. Amt. of Clouds 1 State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position 41° 10' N 71° 10' W

Chart used: No. 4240 Ed'n

Drift: Direction N 11° W Distance

Depth of Haul

Apparatus and Rig used 8

Time towing h. 11 m.

Remarks:

Deck Officer T. H. Butler Recorder

SOUNDING WIRE.			DREDGING CABLE.				
--- M. Down.	Up.	--- M.	FMS.	<u>9</u> M. Down.	Up.	<u>9</u> M.	
			0	10	41	10	55
			100	10	43	20	54
			200				
			300				
			400				
			500				
			600				
			700				
			800				
			900				
			1000				
			1100				
			1200				
			1300				
			1400				
			1500				
			1600				
			1700				
			1800				
			1900				
			2000				
			2100				
			2200				
			2300				
			2400				
			2500				
			2600				
			2700				
			2800				
			2900				
			3000				
			3100				
			3200				
			3300				
			3400				
			3500				
			3600				
			3700				
			3800				
			3900				
			4000				
			4100				
			4200				
			4300				
			4400				
			4500				
			4600				
			4700				
			4800				
			4900				

Dredge } No. 5110 Date, , 19

Hydrog. } Sdg. ~~1111~~ ~~1111~~ Reel 571 Shot 25 lbs.

Turns 1393 Cor'n Depth 135 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make 218 Cor'n { Instr. - .2
No. 106622 Stem. - .4

Bottom Reading 59.6 Cor'd Temp. 59.

Temp. Surf. { 80 Time 3.20 } Air { 89
Time 3.50 } { 85

Density: Surf. 1.02406 fms.

Wind: Direction N.E. Force 3

Baromet. 29.74 Amt. of Clouds 3 State of Sea

Weather bc

Direction and Force of Current { Surface

{ Bottom

Tide

General Locality China Sea,

Coast of N. China, 5 mi. S. of (S. end) N. 13 E.

Position 135-51-25 N. 124-25-55 E.

Chart used: No. CS 4240 Ed'n Feb. 27

Drift: Direction N 20 E Distance 6.13

Depth of Haul

Apparatus and Rig used 12' beam trawl

59' net

Time towing 10 m.

Remarks: Net not hauled until 12.55.

300 yds. of net hauled.

100 yds. of net hauled.

50 yds. of net hauled.

Deck Officer: Recorder:

SOUNDING WIRE.

P	M.	Down.	Up.	P	M.
3	17	20	3	19	30
	18	10			
	18	30			40

FMS.

0

100

135

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

DREDGING CABLE.

P	M.	Down.	Up.	P	M.
3	22	5	3	54	30
3	26	40	3	51	20
	27	35	3	46	50
3	32	—	3	42	—

Dredge } No. 5111 Date, 16 Jan, 1908

Sdg. Mch. J. N. Reel J. N. Shot Lead 30 lbs.

Turns 257 Cor'n Depth 236 fms.

Sdg. Cup Sigsbee water cup Amt. Bot'm Sample 5 m

Character of Bottom Sigsbee sand (gr. M in middle)

Thermom. { Make W. Z. Cor'n { Instr. No. 108022 Stem.

Bottom Reading Therm. 61.5 Cor'd Temp.

Temp. Surf. { 80° Time 7.52 p. Air { 84° 80° Time 3.55 p. 82 1/2

Density: Surf. fms.

Wind: Direction East Force 3

Baromet. 29.75 Amt. of Clouds 4 State of Sea S.

Weather bc.

Direction and Force of Current { Surface Bottom

Tide

General Locality Balayan Ferry

Cape Santiago Pt. 58.3 N. San Pedro Pt. 5.0 N.

Position 13° 45' 15" N. - 120° 46' 30" E. A N 24 W.

Chart used: No. 4240 C.S. Ed'n Feb, 07.

Drift: Direction N 50 E Distance 1 3/4 m.

Depth of Haul Bottom

Apparatus and Rig used AS before.

Time towing h. 30 m.

Remarks: Sigsbee cup full; the anchor did not trip.

Deck Officer W. B. B. Recorder

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	Up.	M.			M. Down.	Up.	M.	
7. 36	10	2	47 50	0	7. 50	30	3	57 50
37	10		45 20	100	57	30		57 00
37	50		42 50	200	57	40		47 50
2 38	20	2	41 20	250	3 01	10		54 50
				400	04	40		41 20
				500	3 08	00	3	38 00
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 5711 Date, June 17, 1907

Hydrog. }
Sdg. Mch. Tanner Reel Shot head 30 lbs.

Turns 186 Cor'n 9 Depth 177 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 0.1

Character of Bottom Sigsbee

Thermom. { Make No. 108022 Cor'n { Instr. -13 Stem. -5

Bottom Reading 53 Cor'd Temp. 52.4

Temp. Surf. { 80° Time 2.20 } Air { 86°
50° Time 3.10 } 84

Density: Surf. 1.02416 botm 1.02496 fms.

Wind: Direction S.E. Force 2

Baromet. 30.77 Amt. of Clouds 7 State of Sea 5

Weather fog

Direction and Force of Current { Surface Bottom

Tide

General Locality Cape Cod Bay. 11.65

Course 18° E, 1/2 mile W 12.68

Position Lat 41° 48' 22" N. Long. 72° 47' 00" W

Chart used: No. 4240 C.S. Ed'n Feb. 1907

Drift: Direction N. 13° E Distance 1.4 miles

Depth of Haul bottom

Apparatus and Rig used 12' Tanner, 5' glass

Time towing h. 0 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
1 04 30	14 30		0	2 14 30	3 09 40	
2 05 30	11 10		100	2 17 40	3 06 50	
3 05 40	07 30	177	300	2 21 10	3 03 10	
			300	2 24 30	3 00 30	
			400	2 28 00		
			500	2 31 40	2 57 00	
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 1111 Date, , 19
Hydrog }
Sdg. Mch. Tannai Reel T. R. Shot Lead 30 lbs.
Turns 166 Cor'n 7 Depth 159 fms.
Sdg. Out Amt. Bot'm Sample 10
Character of Bottom

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 80° Time 3.50 } Air { 80°
80° Time 4.25 }

Density: Surf. 1.02413 fms.

Wind: Direction S.E. Force 2

Baromet. 29.76 Amt. of Clouds 9 State of Sea

Weather bcy

Direction and Force of Current { Surface Bottom

Tide

General Locality China Sea

Position 15° 31' 00" N 120° 30' 00" E

Chart used: No. 1 Ed'n

Drift: Direction 74 Distance 1.0

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. 10 m.

Remarks: Net was down about 10 p.m. and was hauled up about 10 p.m. and was hauled up about 10 p.m.

M. S. 1 1 0 1

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
3 1 1 25	3 4 1 1		0	3 5 1 10	4 2 5	
3 1 1 25	3 4 1 1		100	3 5 4 20	4 2 1	
3 4 2 50	3 4 2 50		200	3 5 8 30	4 1 7	
			300	4 0 2	4 1 2	
			400			
			500			
			600			
			700			
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 574 Date, Oct 20, 1907

Hydrog. } Sdg. Mch. Lucas Reel Lucas Shot Lead 30 lbs.

Turns 240 Cor'n Lucas Depth 340 fms.

Sdg. Cup Manning's Amt. Bot'm Sample

Character of Bottom fine S.

Thermom. { Make No. 75 thermometer Cor'n { Instr. Stem.

Bottom Reading no thermo Cor'd Temp.

Temp. Surf. { 79° Time 11:20 am } Air { 81 1/2° }
50° Time 11:40 am } 84°

Density: Surf. 1.02447 fms.

Wind: Direction ESE Force 3

Baromet. 30.22 Amt. of Clouds 7 State of Sea 2

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality North of ...

Position 12° 36' N, 120° 45' W

Chart used: No. 1240 C.S. Ed'n Feb. 07.

Drift: Direction N 40° E Distance 1/2 mi.

Depth of Haul Bottom

Apparatus and Rig used

Time towing 20 m.

Remarks: ...

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

10	46	00	10	52	30	0	10	58	50	11	54	00
	46	45		52	45	100	"	02	45		53	50
	47	30		52	35	200		05	35		47	50
	47	15		52	25	300		08	45		44	50
12	48	45	12	49	15	400		12	00		41	30
						500		16	00		37	50
						600	11	20	50	11	36	50
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge } No. 2714 Date, , 19

Sdg. Mch. Reel Shot/Lead 30 lbs.

Turns 340 Cor'n Depth 340 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make 713 Cor'n { Instr. No. 105022 Stem.

Bottom Reading 47.00 Cor'd Temp.

Temp. Surf. { Time 1.20 } Air { Time 1.00 }

Density: Surf. 1.02434 fms. 112.57

Wind: Direction E Force 2

Baromet. 77.2 Amt. of Clouds 17 State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality Vents 22.5 Pinnacles

Position 13-37-11 N. 120-43-40 E. Sigsbee Sd. N. 4 fms. Vents 22.5 Pinnacles

Chart used: No. 4240 Ed'n

Drift: Direction N. 43° E. Distance 1

Depth of Haul bottom

Apparatus and Rig used 12

Time towing h. 20 m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.			FMS.	DREDGING CABLE.		
M. Down.	Up.	M.		M. Down.	Up.	M.
1 07 10	1 12 15		0	1 19 20	2 00 00	
1 08 00	1 11 20		100	1 22 45	2 19 00	
1 06 00	1 10 30		200	1 25 55	2 15 40	
1 07 00	1 09 30		300	1 29 40	2 12 15	
1 07 30	1 09 10		400	1 32 00	2 08 50	
			500	1 36 00	2 05 20	
			600	1 38 00		
			700	1 41 00	2 01 10	
			800			
			900			
			1000			
			1100			
			1200			
			1300			
			1400			
			1500			
			1600			
			1700			
			1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			
			2500			
			2600			
			2700			
			2800			
			2900			
			3000			
			3100			
			3200			
			3300			
			3400			
			3500			
			3600			
			3700			
			3800			
			3900			
			4000			
			4100			
			4200			
			4300			
			4400			
			4500			
			4600			
			4700			
			4800			
			4900			

Dredge } No. 15116 Date, Jan 20, 1908

Sdg. Mch. Lucas Reel Lucas Shot/Lead 30 lbs.

Turns 200 Cor'n Depth 200 fms.

Sdg. Cup Snapper Amt. Bot'm Sample

Character of Bottom

Thermom. { Make N.G. Cor'n { Instr. 13
No. 105022 Stem. 5

Bottom Reading S.D. & Cor'd Temp. 50.2

Temp. Surf. { 60° Time 3.02 } Air { 86°
80° Time 86°

Density: Surf. 1.02426 fms.

Wind: Direction E Force 1

Baromet. 29.7 Amt. of Clouds 6 State of Sea

Weather fog

Direction and Force of Current { Surface
Bottom

Tide

General Locality Under St. Passages

Position 12-41-00 N. 170-47-00 E.

Chart used: No. 4740 Ed'n

Drift: Direction N. 50° Distance 1/2

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 20 m.

Remarks: Trawl came up full of
shrimp

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
<i>L.</i> M. Down.		Up.	<i>P.</i> M.				<i>L.</i> M. Down.		Up.	<i>P.</i> M.		
2	57	10	2	57	10	0	3	01	30	3	44	50
2	57	55	2	56	18	100	3	05	00	3	41	
2	55	45	2	55	15	200	3	08	10	3	38	25
						300	3	11	50	3	31	5
						400	3	13	20	3	28	55
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge } No. 517 Date, Jan 21, 1908

Sdg. Mch. Reel Shot/Land lbs.

Turns 124 Cor'n 1203 = 1177 Depth 118 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 74 Time 7 Air { 8

Density: Surf. 1.02475 fms.

Wind: Direction E Force 1

Baromet. 29.4 Amt. of Clouds 9 State of Sea 8

Weather fog

Direction and Force of Current { Surface Bottom

Tide

General Locality

Position 12° 22' N 120° 4' W

Chart used: No. 4710 Ed'n 7

Drift: Direction 71 Distance 3/4

Depth of Haul bottom

Apparatus and Rig used

Time towing h. 20 m.

Remarks

Deck Officer Recorder

SOUNDING WIRE.

M.	Down.	Up.	M.
9	9	20	9
9	10		14
9	10	20	9

FMS.

DREDGING CABLE.

M.	Down.	Up.	M.
9	18		5
9	22		2
9	25		7
9	26	35	7

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 5118 Date, Jan 21, 1900
Sdg. Mch. Lucas Reel 27 Shot 30 lbs.
Turns 166 Cor'n 166 159 fms Depth 159 fms.
Sdg. Cup Amt. Bot'm Sample cup full
Character of Bottom dk. m.

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 79 Time 10:50 am Air { 81
79 Time 11:00 81

Density: Surf. 1.02426 fms.

Wind: Direction Force

Baromet. 30.42 Amt. of Clouds 8 State of Sea

Weather Bcy

Direction and Force of Current { Surface Bottom

Tide

General Locality China Sea

Position 15-48-45 N 120-41-51 E

Chart used: No. 4240 Ed'n 5-1-07

Drift: Direction N 50° W Distance 3/4

Depth of Haul Bottom

Apparatus and Rig used as before

Time towing 30 m.

Remarks: Net on bottom at 290 fms.

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

M. Down. | Up. | M.

10	37	10	37	0	10	37	10	37
10	40	10	40	100	10	37	10	37
10	43	10	43	159	200	37	37	37
				270				
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. 5119. Date, 21 Jan, 1902

Sdg. Mch. Lucas Reel Lucas Shot/Lead 30 lbs.

Turns 394 Cor'n none Depth 544 fms.

Sdg. Cup Clapper Amt. Bot'm Sample 1/2 lb.

Character of Bottom gn. M. S.

Thermom. { Make N-Z Cor'n { Instr. -1
No. 108022 Stem. -64

Bottom Reading 44.4 Cor'd Temp. 43.7

Temp. Surf. { 80° Time 1:38 pm Air { 82°
80° Time 2:26 pm 82°

Density: Surf. 1.0231 fms. 10246

Wind: Direction S E Force 4

Baromet. 29.82 Amt. of Clouds 4 State of Sea S.

Weather bc.

Direction and Force of Current { Surface
Bottom

Tide

General Locality China Sea

Position 13° 45' N, 120° 20' E

Chart used: No. 4240 CS Ed'n Feb'y 02.

Drift: Direction 24-23° E Distance 1 mile

Depth of Haul Bottom

Apparatus and Rig used 12' Trawl, 5' net, 5' line

Time towing - h. 09 m.

Remarks: Water bottle, 1/2 lb. of

used at surface.

Trawl taken from 50 fms. of

surface.

Deck Officer Mr. Howard Recorder (H. H. H.)

11-1023

SOUNDING WIRE.

P. M. Down. Up. O. M.

FMS.

DREDGING CABLE.

P. M. Down. Up. O. M.

1 20 10 1 25 50
 21 25 29 50
 22 20 28 20
 23 20 27 30
 1 24 25 1 26 20 34 40

0
 100
 200
 300

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

1 37 40 2 25 40
 41 15 22 10
 44 35 18 50
 47 50 15 50
 51 00 18 50

54 30 07 30

56 20 2 05 00

Dredge } No. 5120 Date, 21 January, 1908
Hydrog. }
Sdg. Mch. Lucas Reel Lucas Shot/Lead 30 lbs.
Turns 392 Cor'n none Depth 393 fms.
Sdg. Cup Snapper Amt. Bot'm Sample Cup full
Character of Bottom green mud

Thermom. { Make } Instr. Cor'n {
 { No. } { Stem.
Bottom Reading 44.4° Cor'd Temp.

Temp. Surf. { 80° Time 7:57 } Air { 82°
 { 80° Time 8:49 } { 80°

Density: Surf. 1.02486 fms. 1.02486

Wind: Direction E by S Force 4

Baromet. 29.80 Amt. of Clouds 8 State of Sea C.

Weather bz.

Direction and Force of Current { Surface
 { Bottom

Tide

General Locality China Sea

Station No. 1155; 1156 (1155)

Position 13° 50' N, 120° 30' E

Chart used: No. 420 CS Ed'n Feb. 07.

Drift: Direction 5° 75 Distance

Depth of Haul 300 fms.

Apparatus and Rig used 10' beam trawl, 250 lb. net

Time towing 20 m.

Remarks: Sieve used in sorting

Deck Officer. W. H. Ford Recorder. C. H. Ford

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
M. Down.			Up.				M. Down.			Up.		
2	34	40	2	45	45	0	2	56	00	3	47	00
	36	45		44	45	100		59	20		45	00
	38	45		43	45	200	3	03	00		38	00
	39	20		42	45	300		06	30		35	00
2	40	50	2	42	00	392	3	10	05	2	30	00
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

OK M.

Dredge { No. 151 Date, Feb 2, 1903

Sdg. Mch. Reel Shot Lead lbs.

Turns 239 Cor'n -19 Depth 20 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom gy. M.

Thermom. { Make No. Instr. Cor'n Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 79° Time 10.45-2 } Air { 78° 79° Time 11.20 }

Density: Surf. 1.02489 fms.

Wind: Direction 05 M. 26 Force 1

Baromet. 30.1 Amt. of Clouds State of Sea

Weather bc.

Direction and Force of Current { Surface Bottom

Tide

Δ 46 M. 1.25 m.

General Locality

N 7° W. 121° 11'

Position 13° 21' 30" N 121° 11' 30" W

Chart used: No. 4714 C.S. Ed'n

Drift: Direction S 57° E Distance 1.25 m.

Depth of Haul bottom

Apparatus and Rig used 12' Tannin, 5' line,

tripping weights, 2 tail weights,

and log.

Time towing h. 20 m.

Remarks:

Deck Officer Recorder 11-1023

SOUNDING WIRE.					FMS.	DREDGING CABLE.						
M. Down.		Up.	M.			M. Down.		Up.	M.			
10	33	15	10	39	00	0	10	48	20	11	29	00
10	34	00	10	36	00	100	10	52	05	11	25	30
						200						
						300						
						400						
						500	10	56	45			
						600	10	59	00	11	19	00
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge } No. 5124 Date, 2 Feb, 1908

Sdg. Mch. V.V. Reel V.V. Shot/Lead 30 lbs.

Turns 326 Cor'n 320-280 Depth 281 fms.

Sdg. Cup Snapper Amt. Bot'm Sample trace on snapper

Character of Bottom fine sand

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 79° Time 5:45 } Air { 42°
73° Time 6:00 } 80°

Density: Surf. 1.02468 fms.

Wind: Direction Calm Force 0.

Baromet. 29.64 Amt. of Clouds 4 State of Sea C.

Weather bz.

Direction and Force of Current { Surface Bottom

Tide High water 3:45 2 1/2 fms.

General Locality

1. 12. N. 10. S. 10. E. 10. W. 10. S. 10. E.

Position 12° 0' N. 120° 4' W. A 528

Chart used: No. 47 C.S. Ed'n 1901.

Drift: Direction S 9° E Distance 1.5

Depth of Haul Bottom

Apparatus and Rig used As before.

Time towing h. 1 m.

Remarks: The snapper was taken on the bottom of the net. It was not caught. - Taken in 200 fms.

SOUNDING WIRE.

M. Down.

Up.

M.

FMS.

DREDGING CABLE.

M. Down.

Up.

M.

5 | 02 00 | 5 | 15 20
 02 00 | 17 20
 03 35 | 09 00
 04 25 | 06 30
 5 | 04 40 | 5 | 05 10

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

5 | 02 00 | 6 | 12 00
 02 00 | 09 00
 03 35 | 05 20
 04 25 | 02 20
 5 | 04 40 | 5 | 05 10

Dredge { No. 5121 Date, Oct 10, 1907

Sdg. Mch. Lucas Reel Shot Lead lbs.

Turns Cor'n Depth 742 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom soft green

Thermom. { Make 7923 Cor'n { Instr. -0.2
No. 1081546 Stem. -0.5

Bottom Reading 50.2 Cor'd Temp. 49.5

Temp. Surf. { 80.0 Time 1:25 PM } Air { 83.0
20 Time 2:55 } 82.0

Density: Surf. -7 fms. 2

Wind: Direction N Force 1-2

Baromet. 30.15 Amt. of Clouds 9 State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Latitude 17° 31' E Longitude 71° 15' W

Position

Chart used: No. 11718 C.S. Ed'n

Drift: Direction 70.0 Distance

Depth of Haul Bottom

Apparatus and Rig used

Time towing h. m.

Remarks: No fish

Deck Officer Recorder

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
M.	Down.	Up.	M.	Down.	Up.		M.	Down.	Up.	M.	Down.	Up.
12	59	10	1	16	05	0	1	23	50	2	59	16
'	-	5	1	15	10	100	1	28	-	2	-	-
'	-	55	1	14	15	200	1	-	-	-	-	-
1	-	-	1	13	15	300	1	-	-	-	-	34
1	02	50	1	12	-	400	1	-	-	-	-	-
1	03	50	1	11	-	500	1	42	55	2	-	-
'	04	50	1	09	20	600	1	-	-	-	-	-
'	05	-	1	08	20	700	1	-	-	-	-	-
1	05	30	1	08	20	742 800	1	-	-	-	-	-
						900	1	-	-	-	-	-
						1000	1	-	-	-	-	-
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge } No. 5126 Date, July 1, 1906
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot }
Lead } lbs.

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____
No. _____

Cor'n { Instr. _____
Stem. _____

Bottom Reading _____

Cor'd Temp. _____

Temp. Surf. { 60°
80°

Time { 7:05
7:26

Air { 80°
82°

Density: Surf. _____

fms. _____

Wind: Direction N.W. Force 1

Baromet. 29.70 Amt. of Clouds 8 State of Sea 2

Weather _____

Direction and Force { Surface _____
of Current. { Bottom _____

Tide _____

Noyas Id. (W) N 60° E. 32.5 mi.

General Locality _____

Position 15° 12' N 121° 42' W

Chart used: No. 4718 C.S. Ed'n Dec 1906.

Drift: Direction S 60° E Distance 6

Depth of Haul Surface

Apparatus and Rig used _____

Time towing h. 20 m.

Remarks: _____

Deck Officer M. Cassidy Recorder C. E. DeLong

SOUNDING WIRE.			FMS.	DREDGING CABLE.					
M. Down.	Up.	M.		P. M. Down.	Up.	P. M.			
			0	7	05	30	7	40	00
			100						
			200						
			300						
			400						
			500						
			600						
			700						
			800						
			900						
			1000						
			1100						
			1200						
			1300						
			1400						
			1500						
			1600						
			1700						
			1800						
			1900						
			2000						
			2100						
			2200						
			2300						
			2400						
			2500						
			2600						
			2700						
			2800						
			2900						
			3000						
			3100						
			3200						
			3300						
			3400						
			3500						
			3600						
			3700						
			3800						
			3900						
			4000						
			4100						
			4200						
			4300						
			4400						
			4500						
			4600						
			4700						
			4800						
			4900						

OK pl.

Dredge } No. 1 Date, May 15, 1902

Sdg. Mch. Lucas Reel Shot/Lead 30 lbs.

Turns 102 Cor'n none Depth 102 fms.

Sdg. Cup Sieve Amt. Bot'm Sample (in L. & L. & L.)

Character of Bottom

Thermom. { Make N. 10. No. 108023. Cor'n { Instr. -0.3 Stem. 0.3

Bottom Reading 59.8 Cor'd Temp. 59.2

Temp. Surf. { 79.5 Time 3:45 } Air { 81.2 Time 4:15 } 79.2

Density: Surf. 1.02447 Bot'm fms. 102 451

Wind: Direction N.E. Force 3

Baromet. 29.7 Amt. of Clouds 5 State of Sea 1

Weather B

Direction and Force of Current { Surface Bottom

Tide Suckunquin Pt. N. 10W, 9 mi.

General Locality Sulu Sea, Panatien Bay, Panatien, S.E. Coast of Sulu

Position 10° 30' N. 122° 45' E.

Chart used: No. C.S. 472 Ed'n 1

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used 9' d.s. st., 2 floats, 1 line, 10 ft. net.

Time towing h. m.

Remarks: Net was used in towing. Intended to use the line to surface, but it was on bottom, and had to be cut. Recovered later registering over 100 ft. 280 ft. was taken. Net was cut and recovered. The net was lost to the net, and was

Deck Officer N. H. Haged Recorder 11-1023

SOUNDING WIRE.

P. M. Down.		Up.	P. M.	FMS.
2	47	40	3	0
	10	25	30	100
3	24	22	30	200
				300
				400
				500
				600
				700
				800
				900
				1000
				1100
				1200
				1300
				1400
				1500
				1600
				1700
				1800
				1900
				2000
				2100
				2200
				2300
				2400
				2500
				2600
				2700
				2800
				2900
				3000
				3100
				3200
				3300
				3400
				3500
				3600
				3700
				3800
				3900
				4000
				4100
				4200
				4300
				4400
				4500
				4600
				4700
				4800
				4900

DREDGING CABLE.

P. M. Down.		Up.	P. M.
3	38	100	3
	41	30	7
	44	25	20
3	48	25	3

Hydrog. } No. 4899 Date, / / 190

Sdg. Mch. Reel Shot Lead 30 lbs.

Turns 1 E. Cor'n Depth fms.

Sdg. Cup lead Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Instr. No. Cor'n Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

Offshore N. 28 W. 1.3 mi

General Locality

Position 47° 5

Chart used: No. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder C. S. Long

SOUNDING WIRE.						FMS.	DREDGING CABLE.		
M. Down.			Up.	Q. M.			M. Down.	Up.	M.
8	48	10	8	49	00	0			
8	48	20	8	48	30	100			
						200			
						300			
						400			
						500			
						600			
						700			
						800			
						900			
						1000			
						1100			
						1200			
						1300			
						1400			
						1500			
						1600			
						1700			
						1800			
						1900			
						2000			
						2100			
						2200			
						2300			
						2400			
						2500			
						2600			
						2700			
						2800			
						2900			
						3000			
						3100			
						3200			
						3300			
						3400			
						3500			
						3600			
						3700			
						3800			
						3900			
						4000			
						4100			
						4200			
						4300			
						4400			
						4500			
						4600			
						4700			
						4800			
						4900			

OK Pl.

~~Hydrog.~~ } No. 57 Date, Jan. 6, 1908

Sdg. Mch. Tanner Reel 1 Shot 30 lbs.

Turns 15 Cor'n 1000 Depth 17 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

2.1 off Point West 3 mi

General Locality

Position 10 24

Chart used: No. 4644 C. L. Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer J. S. Tatters Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

C. M. Down. Up. S. M.

M. Down. Up. M.

8 5-8 0 8 5-8 40
 1 5-8 10 8 5-8 20

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Hydrog. No. 1000 Date, Feb 1, 1901

Sdg. Mch. Lucas Reel Shot Lead 7 lbs.

Turns 21 Cor'n Depth 21 fms.

Sdg. Cup Int. Bot'm Sample

Character of Bottom gy. M. S.

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

Lat. 45° 14' N. 3 mi.

General Locality

Position

Chart used: No. 4644 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Recorder

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. Down.	Up. Q. M.		M. Down.	Up.	M.
9 23 50	9 24 50	0			
9 24 50	9 25 50	400			
		200			
		300			
		400			
		500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

Ok. Pl.

Trawl { No. 4902 Date, Feb. 1, 1901
Hydrog. }
Sdg. Mch. 1 Reel 1 Shot Lead 30 lbs.
Turns 20 Cor'n Depth 10 fms.
Sdg. Cup 1 Amt. Bot'm Sample About 1/2 cup
Character of Bottom gn. M. sand

Thermom. { Make 1 Cor'n { Instr. 1
No. 1 Stem. 1
Bottom Reading 1 Cor'd Temp. 1

Temp. Surf. { Time 1 }
Time 1 } Air {

Density: Surf. 1 fms. 1

Wind: Direction 1 Force 1

Baromet. 1 Amt. of Clouds 1 State of Sea 1

Weather 1

Direction and Force { Surface 1
of Current. { Bottom 1

Tide 1 N 3/4 W, 1.5 mi

General Locality 1

Position 1

Chart used: No. 4644 C. L. Ed'n 1

Drift: Direction 1 Distance 1

Depth of Haul 1

Apparatus and Rig used 1

Time towing 1 h. 1 m.

Remarks 1

SOUNDING WIRE.		FMS.	DREDGING CABLE.		
M. Down.	Up. M.		M. Down.	Up.	M.
9	9	0			
10	10	100			
		200			
		300			
		400			
		500			
		600			
		700			
		800			
		900			
		1000			
		1100			
		1200			
		1300			
		1400			
		1500			
		1600			
		1700			
		1800			
		1900			
		2000			
		2100			
		2200			
		2300			
		2400			
		2500			
		2600			
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500			
		3600			
		3700			
		3800			
		3900			
		4000			
		4100			
		4200			
		4300			
		4400			
		4500			
		4600			
		4700			
		4800			
		4900			

OK PL

Bridge { No. 4701 Date, June 1, 1901

Sdg. Mch. Reel Shot { Lead { lbs.

Turns 27 Cor'n Depth 27 fms.

Sdg. Cup tallow on lead Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. 2 Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 79° Time 9.24 } Air { 86° }
 { 79° Time 9.42 }

Density: Surf. 1.02447 fms.

Wind: Direction E N E Force 1

Baromet. Amt. of Clouds 7 State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide N. 20 E 4 mi.

General Locality

No. latitude & longitude

Position

Chart used: No. 11 Ed'n 2, 1888

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

2 fms

Time towing h. 1 m.

Remarks:

Deck Officer Mr. Mutton Recorder

SOUNDING WIRE.

Q M. Down. Up. Q. M.

FMS.

DREDGING CABLE.

Q M. Down. Up. Q. M.

9 14 30 9 14 30

0

400

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

9 23 00 9 43 00
9 26 40 9 39 35

Dredge } No. 1 Date, , 19
Hutchins }

Sdg. Mch. ----- *Reel* ----- *Shot* } ----- *Lbs.*
Lead }

Turns 3 Cor'n 1 Depth 17 fms.

Sdg. Cup	Amt. Bot'm Sample
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Character of Bottom *fine, yellow*

Thermom. { Make -----
 { No. -----

Cor'n { Instr. -----
 { Stem -----

Bottom Reading Cor'd Temp.

Temp. Surf. { 79° Time 9.55^m } Air { 85° }

Density: Surf. 1.02447 fms.

Wind: Direction *E N E* Force *1*

Baromet.	Amt. of Clouds	State of Sea
30.0	0	Calm
30.1	0	Calm
30.2	0	Calm
30.3	0	Calm
30.4	0	Calm
30.5	0	Calm
30.6	0	Calm
30.7	0	Calm
30.8	0	Calm
30.9	0	Calm
31.0	0	Calm
31.1	0	Calm
31.2	0	Calm
31.3	0	Calm
31.4	0	Calm
31.5	0	Calm
31.6	0	Calm
31.7	0	Calm
31.8	0	Calm
31.9	0	Calm
32.0	0	Calm
32.1	0	Calm
32.2	0	Calm
32.3	0	Calm
32.4	0	Calm
32.5	0	Calm
32.6	0	Calm
32.7	0	Calm
32.8	0	Calm
32.9	0	Calm
33.0	0	Calm
33.1	0	Calm
33.2	0	Calm
33.3	0	Calm
33.4	0	Calm
33.5	0	Calm
33.6	0	Calm
33.7	0	Calm
33.8	0	Calm
33.9	0	Calm
34.0	0	Calm
34.1	0	Calm
34.2	0	Calm
34.3	0	Calm
34.4	0	Calm
34.5	0	Calm
34.6	0	Calm
34.7	0	Calm
34.8	0	Calm
34.9	0	Calm
35.0	0	Calm
35.1	0	Calm
35.2	0	Calm
35.3	0	Calm
35.4	0	Calm
35.5	0	Calm
35.6	0	Calm
35.7	0	Calm
35.8	0	Calm
35.9	0	Calm
36.0	0	Calm
36.1	0	Calm
36.2	0	Calm
36.3	0	Calm
36.4	0	Calm
36.5	0	Calm
36.6	0	Calm
36.7	0	Calm
36.8	0	Calm
36.9	0	Calm
37.0	0	Calm
37.1	0	Calm
37.2	0	Calm
37.3	0	Calm
37.4	0	Calm
37.5	0	Calm
37.6	0	Calm
37.7	0	Calm
37.8	0	Calm
37.9	0	Calm
38.0	0	Calm
38.1	0	Calm
38.2	0	Calm
38.3	0	Calm
38.4	0	Calm
38.5	0	Calm
38.6	0	Calm
38.7	0	Calm
38.8	0	Calm
38.9	0	Calm
39.0	0	Calm
39.1	0	Calm
39.2	0	Calm
39.3	0	Calm
39.4	0	Calm
39.5	0	Calm
39.6	0	Calm
39.7	0	Calm
39.8	0	Calm
39.9	0	Calm
40.0	0	Calm
40.1	0	Calm
40.2	0	Calm
40.3	0	Calm
40.4	0	Calm
40.5	0	Calm
40.6	0	Calm
40.7	0	Calm
40.8	0	Calm
40.9	0	Calm
41.0	0	Calm
41.1	0	Calm
41.2	0	Calm
41.3	0	Calm
41.4	0	Calm
41.5	0	Calm
41.6	0	Calm
41.7	0	Calm
41.8	0	Calm
41.9	0	Calm
42.0	0	Calm
42.1	0	Calm
42.2	0	Calm
42.3	0	Calm
42.4	0	Calm
42.5	0	Calm
42.6	0	Calm
42.7	0	Calm
42.8	0	Calm
42.9	0	Calm
43.0		

Weather: 60-70°; Partly Cloudy

Direction and Force of Current. { Surface _____
 Bottom _____

Tide _____
 _____ N. 15° W. 3 mi

General Locality *no lat & longt. given*

Position / ... W ... 36

Chart used: No. 2644 C 2 Ed'n 1

Drift: Direction α Distance γ

Depth of Haul *Bottom*

Apparatus and Rig used 9' Diameter, 4' high, 1/2" thick

2. Salvage - the act of saving or recovering

6. *Conclusions*

Time towing h. m.

Remarks:

Deck Officer *Mr. Wetters* Recorder

SOUNDING WIRE.

C M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0	9	5	1	00	10	17	10
100	8	5	1	2	10	18	10
200							
300							
400							
500							
600							
700							
800							
900							
1000							
1100							
1200							
1300							
1400							
1500							
1600							
1700							
1800							
1900							
2000							
2100							
2200							
2300							
2400							
2500							
2600							
2700							
2800							
2900							
3000							
3100							
3200							
3300							
3400							
3500							
3600							
3700							
3800							
3900							
4000							
4100							
4200							
4300							
4400							
4500							
4600							
4700							
4800							
4900							

Dredge } No. 5137 Date, _____, 19__

Sdg. Mch. _____ Reel _____ Shot/Lead 5 lbs.

Turns 25 Cor'n _____ Depth 25 fms.

Sdg. Cup/ _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make N. 2 Cor'n { Instr. -1.4
No. 108023 Stem. +0.08

Bottom Reading 78.5 Cor'd Temp. 78.1

Temp. Surf. { 78° Time 7:15 AM Air { 82°
78° Time _____

Density: Surf. 1.02497 fms. _____

Wind: Direction SE Force 1

Baromet. 29.82 Amt. of Clouds 2 State of Sea S

Weather bc

Direction and Force of Current { Surface _____
Bottom _____

Tide WN 859W, 6.25

General Locality Sulu Sea

Position 6°44'54" - 121°47'54"

Chart used: No. CS. 4511 Ed'n _____

Drift: Direction S 42 W Distance _____

Depth of Haul bottom

Apparatus and Rig used as before

Time towing _____ h. 2 m.

Remarks: _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

FMS.

M. Down. | Up. | M.

2 16 7
 7 1-120 7

0
 100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

DREDGING CABLE.

M. Down. | Up. | M.

7 17 30 7 45 15
 7 22 10 7 42 10

Dredge } No. 5134 Date, Feb 7, 1908
Hydrog. }
Sdg. Mch. J.N. Reel 73 Shot/Lead 35 lbs.
Turns 24 Cor'n 0 Depth 34 fms.

Sdg. Cup 21 min. Amt. Bot'm Sample trace
Character of Bottom gy. S.

Thermom. { Make N.2. Cor'n { Instr. -.4
 { No. 108023 { Stem. -.2

Bottom Reading 76.8 Cor'd Temp. 76.2

Temp. Surf. { 78° Time 11:00 Air { 83°
 { 78° Time 9:30 { 81°

Density: Surf. _____ fms.

Wind: Direction East Force 2

Baromet. 29.6 Amt. of Clouds 7 State of Sea 2.

Weather bc.

Direction and Force of Current { Surface
 { Bottom

Tide _____

General Locality Sulu Sea 4.9 mi

Position 6° 44' 10" N. 121° 44' 48" E

Chart used: No. C.S. 4511 Ed'n ?

Drift: Direction 130 Distance 0.4

Depth of Haul 75 fms.

Apparatus and Rig used 10' Inter 250-12.
Sinkers.

Time towing 20 m.

Remarks: 1st haul
2nd haul!

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

7 53 30 7 54 00
 7 54 00 7 54 15

FMS.	M. Down.	Up.	M.
0	8	03	30
100	8	05	05
200			
300			
400			
500			
600			
700			
800			
900			
1000			
1100			
1200			
1300			
1400			
1500			
1600			
1700			
1800			
1900			
2000			
2100			
2200			
2300			
2400			
2500			
2600			
2700			
2800			
2900			
3000			
3100			
3200			
3300			
3400			
3500			
3600			
3700			
3800			
3900			
4000			
4100			
4200			
4300			
4400			
4500			
4600			
4700			
4800			
4900			

OK 12

Dredge } No. _____ Date, _____, 19____
Hydrog. }
Sdg. Mch. 77 Reel 77 Shot } 35 lbs.
Lead }
Turns 23 Cor'n _____ Depth 22 1/2 fms.
Sdg. Cup _____ Amt. Bot'm Sample _____
Character of Bottom sandy shell

Thermom. { Make None Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 86° Time 8:50 A.M. } Air { 86°
 { _____ Time _____ } { _____

Density: Surf. 1.02489 _____ fms. _____

Wind: Direction calm Force 0

Baromet. _____ Amt. of Clouds 3 State of Sea 3

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide 7:45 S 35° E. 0.75 mi.

General Locality off Cape Cod

Time _____

Position _____

Chart used: No. 684542 Ed'n _____

Drift: Direction 77.2° W Distance 1.6

Depth of Haul _____

Apparatus and Rig used 12' beam trawl

Time towing _____ h. 20 m.

Remarks: _____

SOUNDING WIRE.

FMS.

M. Down. Up. M.

DREDGING CABLE.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

OK

Dredge } No. 4 Date, _____, 19__
Hydrog. }

Sdg. Mch. Tanner Reel 7 Shot/Lead 35 lbs.

Turns 19 Cor'n _____ Depth 19 fms.

Sdg. Cup _____ Int. Bot'm Sample _____

Character of Bottom S

Thermom. { Make Non Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ } _____

Density: Surf. (none taken) _____ fms. _____

Wind: Direction variable Force cal

Baromet. _____ Amt. of Clouds 6 State of Sea _____

Weather cal

Direction and Force of Current { Surface _____
 { Bottom _____

Tide 14.5 19°E 2.5 mi.

General Locality Java Sea

Position 14.5 19°E 2.5 mi.

Chart used: No. 654542 Ed'n _____

Drift: Direction 11.5°E Distance _____

Depth of Haul Bottom

Apparatus and Rig used as before. 12 ft. Agassiz net.

Time towing _____ h. _____ m.

Remarks: 12 ft. Agassiz net

Deck Officer _____ Recorder _____

Deck Officer _____ Recorder _____

Deck Officer _____ Recorder _____

Deck Officer _____ Recorder _____

Deck Officer _____ Recorder _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

0	30	50
0	49	35

0	100
19	58

10	13	—	11	18	20
10	53	30	11	57	30

200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

11-1023

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
<input checked="" type="checkbox"/> M. DOWN.	UP.	<input checked="" type="checkbox"/> M.			<input checked="" type="checkbox"/> M. DOWN.	UP.	<input checked="" type="checkbox"/> M.	
1 57 20	2	00 00		0	2 03 30	2	24 10	
1 57 59	1	58 00	76	100	07 50		30 12	
				200	2 09 15	2	23 15	
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Dredge } No. _____ Date, _____, 1904
Hydrog. }

Sdg. Mch. Tanner Reel T Shot/Lead 35 lbs.

Turns 1 Cor'n _____ Depth 1 fms.

Sdg. Cup tailor over lead Amt. Bot'm Sample 7

Character of Bottom Co. S. sh.

Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 80° Time 10.30 } Air { 87°
 { 80° Time 10.45 } { 88°

Density: Surf. 1.02503 fms. _____

Wind: Direction variable Force 0-1

Baromet. _____ Amt. of Clouds 9 State of Sea 2

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____
1.1 S 50° W, 3.9 mi

General Locality _____
(F) NW 1/4 Sec 4, T. 36 N.

Position 6° 45' N. 111° 40' W.

Chart used: No. 0542 Ed'n _____

Drift: Direction West Distance 3

Depth of Haul bottom

Apparatus and Rig used 10' beam trawl
mouth 10' x 10' mesh 3/4" netting
hauled by hand

Time towing _____ h. 11 m. _____

Remarks: 1 fish caught
1 small crab
Crab broken

SOUNDING WIRE.

M. Down. | Up. | M.

10 20 30 40 50 60 70 80 90 100
 10 20 30 40 50 60 70 80 90 100

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

10 20 30 40 50 60 70 80 90 100
 10 20 30 40 50 60 70 80 90 100

0
 100
 200
 300
 400
 500
 600
 700
 800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000
 4100
 4200
 4300
 4400
 4500
 4600
 4700
 4800
 4900

Ok pl.

Dredge } No. 3714 Date, Feb 1, 1900

Sdg. Mch. Reel Shot Lead 7 lbs.

Turns 20 Cor'n — Depth 19 fms.

Sdg. Cup No. 10 Amt. Bot'm Sample Small

Character of Bottom S.

Thermom. { Make } No. 709 used Cor'n { Instr. } Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 81° Time 11:25 } Air { 91°
81 Time 11:48 } 95°

Density: Surf. 1.02574 fms.

Wind: Direction Variable Force 0-1

Baromet. Amt. of Clouds 9 State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide 3.3 mi.

General Locality 2

Pangasinan 45° W

Position 6° 50' N. 13° 15' E.

Chart used: No. 4542 Ed'n

Drift: Direction N. 45° W Distance 16

Depth of Haul

Apparatus and Rig used 12' Agassiz H.P.

Time towing h. 2 m.

Remarks:

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
M. Down.			Up.				M. Down.			Up.		
11	19	10	11	20	00	0	11	23	40	11	47	10
11	19	10	11	20	00	400	11	23	40	11	47	10
						200						
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

10	03	20	10	03	20	0	10	03	20	10	03	20
10	03	40	10	03	40	100	10	03	40	10	03	40
						200	10	03	40	10	03	40
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

Dredge } No. 4 Date, 1901, 19
Hydrog }
Sdg. Mch. 1 Reel Shot } lbs.
Lead }
Turns 15 Cor'n Depth 15 fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom 1

Thermom. { Make *Thermo* Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { *84°* Time *1.08* } Air { *82 1/2* }
Time

Density: Surf. *1.02523* fms.

Wind: Direction *N. x E.* Force *1-2*

Baromet. Amt. of Clouds State of Sea

Weather *b.c.*

Direction and Force of Current { Surface
Bottom

Tide *3.8 mi.*

General Locality

Position *5° 35' 20" N 126° 47' 30" E*

Chart used: No. *45-44* Ed'n

Drift: Direction *S 51° E* Distance *7*

Depth of Haul *bottom*

Apparatus and Rig used *12' Agassiz*

Time towing *17 1/2 m.*

Remarks: *bottom h. b.*

Deck Officer Recorder

SOUNDING WIRE.				FMS.	DREDGING CABLE.			
M. Down.	Up.	M.			M. Down.	Up.	M.	
1	030	1	01 15	0	1	05 00	1	26 20
1	40	1	01 00	17 100	1	06 30	1	24 20
				200				
				300				
				400				
				500				
				600				
				700				
				800				
				900				
				1000				
				1100				
				1200				
				1300				
				1400				
				1500				
				1600				
				1700				
				1800				
				1900				
				2000				
				2100				
				2200				
				2300				
				2400				
				2500				
				2600				
				2700				
				2800				
				2900				
				3000				
				3100				
				3200				
				3300				
				3400				
				3500				
				3600				
				3700				
				3800				
				3900				
				4000				
				4100				
				4200				
				4300				
				4400				
				4500				
				4600				
				4700				
				4800				
				4900				

Note

Quartz

H. 4905

Round

OK PL.

Dredge } No. 5 Date, , 19
Hydrog. }
Sdg. Mch. Reel Shot/Lead lbs.
Turns 2/ Cor'n Depth 2/ fms.
Sdg. Cup Amt. Bot'm Sample /
Character of Bottom

Thermom. { Make Cor'n { Instr.
No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 71 Time 1 Air { 82
78 Time 11:47:00 82

Density: Surf. 1.02495 fms.

Wind: Direction N.W. Force 1

Baromet. Amt. of Clouds 7 State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide N 87° W. 11.8 mi.

General Locality Sulu Sea.

Position 5° 23' 20" N 120° 35' 00" E

Chart used: No. 4514 C.S. Ed'n

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used 12' 71 ft. 2' 1' 1'

Time towing h. m.

Remarks:

Deck Officer Recorder.

SOUNDING WIRE.

A M. DOWN. UP. *A* M.

11 37 - 11 37 40
 11 37 15 11 37 20

FMS.

0

100

~~100~~

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

DREDGING CABLE.

A M. DOWN. UP. *A* M.

11 39 - 11 47 -

11 42 30 11 43 45

11 43 - 11 43 30

OK Pl

Dredge } No. 5152 Date, 18 Feb, 1908
 Hydrog. }
 Sdg. Mch. J. N. Reel J. N. Shot } 35 lbs.
 Lead }
 Turns 34 Cor'n — Depth 34 fms.
 Sdg. Cup Arming Amt. Bot'm Sample Arming full
 Character of Bottom WLS (= white Sand)

Thermom. { Make }
 { No. } none used Cor'n { Instr. } —
 { Stem. } —

Bottom Reading Cor'd Temp. —

Temp. Surf. { 81° Time 3:24 p. } Air { 87°
 { 81° Time 3:42 p. } { 86°

Density: Surf. 1.02457 fms. —

Wind: Direction W-S-W Force 1-2

Baromet. 29.64 Amt. of Clouds 9 State of Sea S.

Weather bc.

Direction and Force of Current { Surface
 { Bottom

Tide — 2 mi.

General Locality Singaye Passage.

5°22'55"N, 120°15'45"E. Tambayan I (S)

Position S 63° E, Pajumjan I (W) S 2° W

Chart used: No. SC 4514 Ed'n ?

Drift: Direction S 56° W Distance 0.5 m.

Depth of Haul Bottom

Apparatus and Rig used 12' Ag. NR. with chain,
 5 glass floats, 2 wing wts, 1 tail wt, and
 1 mud bag.

Time towing — h. 15 m.

Remarks: "Time towing" is figured from
 3:25:30 p.m.

Deck Officer Mr. Hazard Recorder Arakiil —

SOUNDING WIRE.						FMS.	DREDGING CABLE.					
P. M. DOWN.			UP. P. M.				P. M. DOWN.			UP. P. M.		
3	20	40	3	22	00	0	3	23	20	3	42	50
3	21	00	3	21	05	14 100.50	3	25	30			
						200	3	28	00	3	40	30
						300						
						400						
						500						
						600						
						700						
						800						
						900						
						1000						
						1100						
						1200						
						1300						
						1400						
						1500						
						1600						
						1700						
						1800						
						1900						
						2000						
						2100						
						2200						
						2300						
						2400						
						2500						
						2600						
						2700						
						2800						
						2900						
						3000						
						3100						
						3200						
						3300						
						3400						
						3500						
						3600						
						3700						
						3800						
						3900						
						4000						
						4100						
						4200						
						4300						
						4400						
						4500						
						4600						
						4700						
						4800						
						4900						

$$\begin{array}{r} 150 \overline{) 60} \\ 120 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 250 \overline{) 60} \\ 250 \\ \hline 10 \end{array}$$

4714

$$\begin{array}{r} 2 \ 0 \ 0 \\ 2 \ 2 \ 1 \\ \hline \end{array}$$

$$11 \text{ hrs} = 3 \text{ min } 10''$$